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ACE/AACE INSPECTION AND ANALYSIS HANDBOOK

MART III - PROFILING



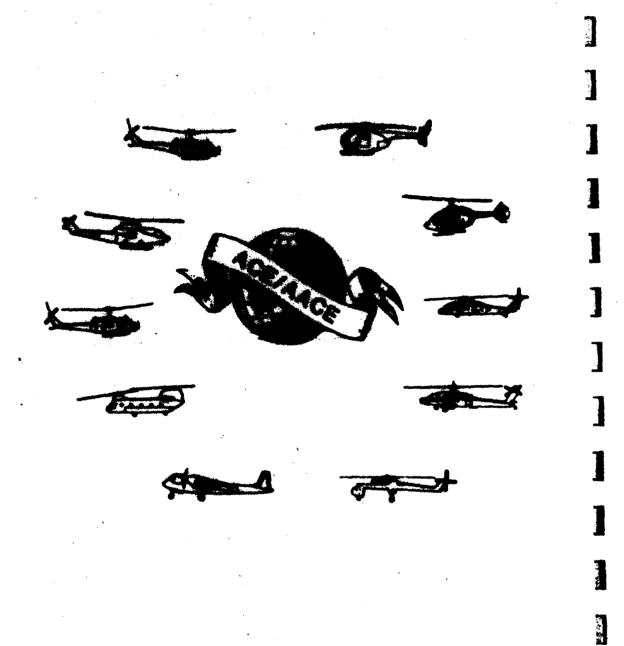
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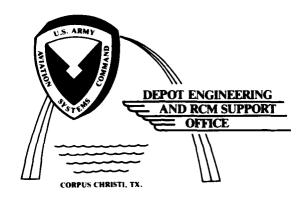
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ACE/AACE INSPECTION AND ANALYSIS

HANDBOOK

PART III - PROFILING



Prepared as a Special Task under the auspices of the Nondestructive Testing Information Analysis Center for

U.S. ARMY AVIATION SYSTEMS COMMAND

APRIL 1985

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| Acces | sion For | |
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1.0 INTRODUCTION TO PART III - PROFILING

The actual profiling of aircraft in the Airframe Condition Evaluation (ACE)/Aircraft Analytical Corrosion Evaluation (AACE) program is performed by the ACE/AACE team. The team's objective is to acquire fielded aircraft information to provide a data base whereby management decisions regarding aircraft depot induction for programmed depot maintenance can be made. This part of the handbook provides guidelines and criteria for performing the tasks required of the ACE/AACE team.

This part is designed to be compatible with the two other parts of this handbook. Part I delineates the various interrelated management aspects of reliability-centered maintenance, on-condition maintenance, and ACE/AACE. Part II delineates the various technical aspects involved in the planning and analysis of the ACE/AACE program.

2.0 ACE PROFILING GUIDELINES

Profiling an aircraft in accordance with the airframe condition evaluation (ACE) procedure involves carefully examining the airframe structure for symptoms of possible hidden defects. Pre-selected indicators and condition codes form the basis for conducting the evaluation. The criteria for selecting airframe indicators are, in part, based upon providing simplicity of evaluation conduct. Therefore, the indicators are easily detected and readily accessible. The estimated times to complete an ACE profile for specific aircraft are presented in Table 2-1. The ACE procedure does not in any way apply to aircraft that experience damage from combat operations, crashes, or accidents.

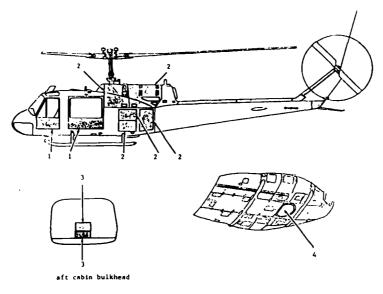
Table 2-1 Estimated ACE Examination Times

| Time (hrs. min.) |
|------------------|
| 1:05 |
| 1:05 |
| 1:00 |
| 1:00 |
| 2:05 |
| 1:35 |
| 2:45 |
| 3:05 |
| 2:30 |
| |

Before evaluation of the airframe indicators, specified sections of the aircraft are exposed for viewing. All aircraft disassembly is performed by the operational unit, not the ACE/AACE team. The minimum desirable working team to be provided by the operational unit to aid in the evaluation is a unit technical inspector and the aircraft crew chief. For the evaluation, the unit technical inspector places the aircraft on a RED X. Upon evaluation completion, the aircraft is returned to an appropriate status. Figure 2-1 provides an example of an aircraft preparation for ACE.

The following equipment is possessed by each ACE profiler during aircraft evaluation:

- Two inspection mirrors.
- Two three cell flashlights and spare batteries.
- One honeycomb sounding tool.
- Any technical manuals, Army administrative publications (i.e. regulations), and administrative publications of the Command, if needed.



- 1. Unlock all doors. (Item 1)
- 2. Open all cowling and access doors. (Item 2)
- 3. Open overhead circuit breaker in cockpit area.
- 4. Remove seats in cargo aren if installed.
- 5. Remove wound proofing in cabin (aft bulkhead and center roof area).
- 6. Remove two (2) panels from center aft cabin bulkhead. (Item 3)
- 7. Remove cargo hook from hellhole area if installed. (Item 4)

Figure 2-1 UH-1 Preparation for ACE

Evaluation Conduct

The indicators and applicable condition codes selected for each aircraft are used to evaluate the basic airframe in an effort to detect general progressive deterioration of the airframe, regardless of cause (i.e., normal wear, overstressing, climatic conditions, etc.). The ACE/AACE team examines the aircraft in an orderly manner, thereby accomplishing the evaluation, and records the results using condition codes preestablished for each indicator. This is done in accordance with AVSCOM Pamphlet series 750-1, and the ACE worksheets provided therein, developed by the, Depot Engineering and RCM Support Office. Each pamphlet delineates, in a systematic order, the airframe indicators and applicable condition codes selected for profiling a specific type of aircraft.

The matrix presented in Table 2-2 provides a comparison of all current indicators for the various aircraft participating in the ACE program. These indicators are provided on the worksheets contained in the aircraft AVSCOM 750-1 Pamphlet series.

Table 2-2 Matrix of ACE Indicators

| ACE Indicators (Generalized) Indicators | AH-16/0/S | UR-18/C/M | CH-47A/B | OH-6A 10/C/D | U-21 6 OW. | CH-54A/B | A/HI-HO | 0H-58A/C | М-604 |
|---|-----------|--|----------|--------------|------------|----------|---------|----------|-------|
| Paint Condition | • | • | • | • | • | • | • | • | • |
| Honeycomb Panels | • | • | • | | | | • | • | • |
| Transparencies | • | | • | • | | | | • | • |
| Lift Beam, Webs and Loose Hi-shears | • | • | | | | | • | | |
| Tail Rotor Drive Shaft Hanger Support Inserts | • | | | | | | | | |
| Overall Condition | • | • | • | • | • | • | • | • | • |
| Aft Fuselage Vertical Web | | • | | | | | | | |
| Tailboom Skin | | • | | | | | • | • | |
| Rylon Assy, Horizontal Angles, Webs, Rivets, Panels, L/H, R/H | • | • | • | | | • | • | | |
| Tailboom Attach Fittings | • | • | • | • | | | | • | |
| Nose Section Structure, Panels | • | | • | | | • | | • | • |
| Center Section Structure, Panels | | | • | | | • | | | |
| Aft Section Structure, Panels | • | | • | | | | | | |
| Upper Tunnel Area | | | • | | | | | | |
| Rotor Head Assy Mounting Platforms Beams L & R, and Floor | 1 | | | • | | | | | |
| Control Column | | | | • | | | | • | |
| Fwd Keel Beam | 1 | | | • | | | | | |
| Firewall, Engine, Fuel Cell | 1 | | | • | • | | • | | |
| Aft Ring Bulkhead | 1 | | | • | | | | | |
| Passenger Compartment, L/H, R/H, Vertical Webs | | | | • | | | | | |
| Upper External Longeron R/H, L/H | | | | • | | | | • | |
| Aft Fuselage Skin | | • | | • | | | • | | |
| Door Hinge Fwd and Aft L/H, R/H | | | | • | | | | | |
| Passenger Compartment Flooring, Panels, Bulkbead Interior/Exterior | | | | • | | | | • | |
| Battery Compartment | T | | | • | • | | | • | |
| | | | | | | | | | |

Table 2-2 Matrix of ACE Indicators (Cont'd)

| ACE Indicators (Generalized) Indicators | AH-1G/Q/S | UH-1B/C/H | G2 474/8/C | 0H-6A | U-21 & OV-1 | CH-54A/B | V/H1-HU | OH-58A/C | ^{DR} -60A | - ; - |
|--|-----------|-----------|------------|-------|-------------|----------|---------|----------|--------------------|----------------|
| Formers (Bulkheads) | | | | | • | | | | | 1 |
| Main Spar Left, Right | | | | | • | | | | | - 4 |
| Fuselage to Spar Attach Straps | | | | | • | | | | | - |
| Horizontal Stabilizer Attach Fittings | | | | | • | | | | · | |
| Vertical Fin Attach Fittings | | | | | • | | | | | |
| Aft, Fwd Landing Gear Attach Fittings, R/H, L/H | | | | • | • | | | | • | |
| Wing Attach Fittings | | | | | • | | | | | |
| Engine Mounts | | | • | • | • | | | | • | |
| Tail Cone Assy, Skin, Bulkheads | | | | | | • | | | • | |
| Fwd, Aft, and Main Hoist Attach Fittings | | | | | | • | | | | 1 |
| Canted Bulkhead and Split Deck Assy | | | | | | | • | | | |
| Aft Fuselage Bulkhead Fitting, L/H, R/H | | | | | | | • | | | |
| Cabin Roof Beam | | | | | | | | • | |] . |
| Lower Fuselage Honeycomb, Interior, and Exterior | | | | | | | | • | |] - |
| Roof Honeycomb, Panel, Interior, and | | | | | | | | • | |] [|
| Fwd, Aft Transmission Support Brackets, L/H,R/H | | | | | | | | • | • |]-1 |
| Fwd, Aft Fuel Cell Bulkhead, Panels | • | • | | | | | | • | |] , |
| Aft Fuselage Upper Longerons, Webs | | | | • | | | | • | |].] |
| Fwd, Aft Fuel Cell Honeycomb Shell, L/H, R/H | | • | | | | | • | • | |]., |
| Cockpit Floor Panels, Supports | • | | | • | | | | • | |] ¦ |
| Aft Fuselage Lower Stringers FS | | | | | | | | • | |] |
| Electrical Wiring, Coaxial Cable, Bundles | • | • | | • | | | • | • | |] |
| lailcone Structure, Exterior | | | | | | | | • | |] |
| Nose Door and Cockpit Door Panels | | | | | Γ | | | | • | |
| Avionics/Electronics Compartment, Panels, Flooring | g • | | | | | | | | • | |
| Fwd Cockpit, Door Frames, Posts, Tracks, L/H, R/H | | | | • | | | • | • | • | |

Table 2-2 Matrix of ACE Indicators (Cont'd)

| , | | | | | | | | | | |
|--|-----------|-----------|---------------|---------------------|-------------|----------|---------|----------|--------|---|
| ACE Indicators (Generalized) Indicators | AH-16/0/S | UH-1B/C/M | (1) 4/4/7 (F) | 0/2/0 49 -80 | U-21 & OU-1 | CH-54A/B | A/HI-HO | OH-58A/C | DH-60A | |
| Fwd Landing Gear | | | - | | • | | | | • | |
| Aft, Cargo Door Tracks, Posts, Frames, L/H, R/H | | • | | | ļ — | | • | • | • | |
| Fuselage Frames | | | | | | | | | • | |
| Transmission Support Beams | | | • | | | | | | • | |
| Aft Fuselage Floor Panel | | | | | | | | | • | ĺ |
| Cargo Hook Support Beam, Fittings | | | | | | | | | • | |
| Fuselage Skins, Panels | | | | • | | | | | • | |
| Storage Compartment Floors | | | | | | | | | • | ĺ |
| Transition Bulkheads | | | • | | | | | | • | |
| Aft, Cargo, Door Post, Interior and Exterior | | • | | • | | | • | • | | ĺ |
| Ammo Compartment | • | | | | | | | | | l |
| Structural Panel Forward of Stub Wing | • | | | | | | | | | Ì |
| Canopy Striker Plates | • | | | | | | | | | |
| XM-28 Floor | • | | | | | | | | | |
| Hydraulic Compartment | • | | | | | | | | | |
| Deck Areas, Panels | • | | | | | | | | | l |
| Transmission Compartment, Flooring | • | | | | | | | | | |
| Oil Cooler, Flooring, Panels | • | | | | | | | | | |
| Lower, Upper Aft Cabin Bulkhead, Panels, L/H, R/H | | • | | | | | | | | l |
| Fuel Cell Outboard Panels, R/H, L/H | | • | | | | | • | | | 1 |
| Fifth Mount Attach Area | | • | | | | | | | | l |
| Fuel Cell Inboard Panel, L/H, R/H Hellhole | | • | | | | | | | | |
| Corrosion, Flooring, Castings | | | • | | | | | | | |
| Fwd Upper, Lower Canted Frame | | | | | | | • | | | |
| Strut Center Beam Attach Fittings, L/H, R/H | | | | | | | • | | | |
| Mast Support Structure Fitting, Panels | | | | | | | • | | | |
| | | | | | | | | | | - |

Table 2-2 Matrix of ACE Indicators (Cont'd)

| ACE Indicators (Generalized) Indicators | AH-1G/Q/S | UH-18/C/H | B 474/4/2 | OH-6A 10/C/D | U-21 & OV. | VH-1H/V | 0H-58A/C | UH-60A | - |
|--|-----------|-----------|-----------|--------------|------------|---------|----------|--------|------------|
| Outboard Fuel Cell Bulkhead, L/H, R/H | | | | | | • | | | |
| Fwd, Aft Main Beam, L/H, R/H | | | | | | • | | | } |
| Center Post Assy | | | | | | | • | |] . |
| Cockpit Fuselage Shells, Interior/Exterior, L/H, f | H H | | | | | | • | | |
| Passenger Seat Panels | | | | | | | • | | |
| Transition Fuselage, Skin, Bulkheads | | | | | | | | • | |
| Roof Skin | | | | | | | | • | 1 |

The condition codes are used to identify the condition of the indicator being evaluated. They identify "what can go wrong" and/or "how bad it is." The selection of a condition code by the ACE/AACE team dictates the indicator weight (numerical value) used in formulating the aircraft profile index. However, the ACE/AACE team does not have knowledge as to what the current indicator weights are. Table 2-3 presents the condition codes with Table 2-4 delineating the criteria for condition code selection.

An example of an indicator is paint condition. Paint is normally the only protective cover available for an aircraft; it must therefore fully cover all outer surfaces of the aircraft except for the transparencies. The exterior paint performs two primary functions: (1) protect the outer surfaces from the corrosive effects of the weather and (2) camouflage the helicopter. Paint in good condition also performs the secondary function of adding eye appeal and giving the appearance of a well maintained aircraft. Based on the criteria shown for paint in Table 2-4, the ACE/AACE team determines the applicable condition code to be circled.

Table 2-3. ACE Condition Codes

| A - Worn Excessively | M - Good |
|----------------------|-----------------------------|
| B - Buckled | N - Loose |
| C - Deteriorated | P - Bent |
| D - Corroded | Q - Minor |
| E - Cracked | R - No Defect |
| F - Misaligned | S - Delaminated |
| G - Loose Rivets | T - Improper Hardware |
| H - Major | U - Dent |
| I - Oxidized | X - Scratch |
| J - Punctured | Y - Temporary Repair |
| K - Poor | Z - Bolts in lieu of Rivets |
| L - Fair | |

The evaluation proceeds in respect to the order of indicators on the applicable ACE worksheet(s) following a counterclockwise motion about the aircraft. The ACE/AACE team proceeds through the profile until an indicator deficiency is found. At this point, the applicable condition code is determined and circled on the worksheet. This process continues until the profile is completed.

Any safety-of-flight items that are discovered during the profile should be verbally brought to the attention of the unit technical inspector. In no case does the ACE/AACE team ground or suggest that an aircraft be grounded; this is a decision to be made by the unit technical inspector and/or maintenance officer.

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Table 2-4 Condition Codes Criteria

| NOTE OF THE | CONDITION | άδε | HEGI IGIBLE DEFECT | RECORDINALE DEFECT |
|---------------------------------|----------------------|----------|--|--|
| BONDED PANELS | DELAMINATED | s | DELAMINATED AREA NO LARGER THAN THO (2) SQ. INCHES IN SIZE \$ 10 HOME THAN THREE DELAMINATED AREAS IN EACH POCKET. | DELAMINATED AREAS THAT EXCERD NEGLIGIBLE DEFECTS. |
| | DETERIORATE | С | MONE NOTE: CORE CORROSION WILL SOUND LIKE DELAMINATION WIEN TAPPING AND SPANCY TO THE TOUCH. | INTERNAL CORES CORROCKED OR CONTAMINATED WITH MAKER, OIL, FUEL, MORANA IC FLILID, ETC. IF REQUIRED, VERIEFY CONTAMINATION BY DRILLING A . U.W.) INCH MY.E AT BOTTOM OF SUSPECTED DETERMINATED AREA. IT CONTAMINATED, LIQUID WILL COME QUY THE MOLE. |
| | TEMPORARY REPAIR | Y | ADIESTVE BONDED OR SEALED PATCHES WHICH EXAMINE LIKE THE ORIGINAL PANEL ARE CONSIDERED PERMANENT REPAIRS AND SIMIL NOT BE MARKED. | INJECTIONS OR FILLS, LARGER THAN 3/1 IN. IN DIAMETER, UNBOIDED LAP PATCHES. DELAMINATED PATCHES, DEPROPER PATCH MATERIAL REPAIRS OF POR QUALITY OF MERINAVISINE. FORE THAN ONE REPAIR FOR POCKET. |
| | PUNCTURED | J | None. | OPENING IN FACING OF PANEL (HORPALLY ROUND HOLE). |
| | CORPODED | D | CORRUSION RESIDUE ON SURFACE THAT CAN BE REMOVED BY RUBBING WITH A CLOTH AND NO PITTING OF THE METAL CAN BE SEEN. | CAN NOT REMOVE SURFACE CORROSION RESIDUE WITH CLOTH. METAL. IS PITTED UNDER CORROSION. |
| | DENTS | U | DAMAGE NOT EXCEEDING IOT OF SUPFACE AREA OF ONE POCKET. NO MORE THAN FIVE DENTS IN MINY THREE (3) SOUAME (INCH AREA WITH NO VOIDS. SIZE SHALL NOT EXCEED IS, INCHES IN DIAMETER OF TWO INCICS IN LEAGTH. DEPTH SHALL NOT BE GREATER THAN | DAMAGE EXCERDING NEGLIGIBLE DEFECTS. |
| | L008E | G | SINGLE LOOSE RIVET IN EACH RCH IS ACCEPTABLE. | INDICATIONS OF LOOSE RIVETS, VISIBLE MEAR RESIDUE (DARK RING) APOUND IEAD, GETERIORATED PAINT AND PRIMER ARCURD MEAD, GROUP OF SEVERAL CONSECUTIVE RIVETS TIPPED IN SAME DIRECTION, VISIBLE SPACE LIDER IEAD, AND/OF MOVE RIVET WITH FINEST PRESSURE. IF RIVET IS HISSIDIE, WARK AS LOOSE RIVET AND MAKE NOTE OF THIS IN REWAKKS SECTION. |
| SHEET PETAL, FORGINGS, | CRACKED | £ | Hone | ANY CRACKS IN SPECIFIED ANEA. NOTE: |
| CASTINGS, MOUNTS, & SPARS | | | | FOR FORGINGS, CASTINGS, MOINTS AND SPARS, VEHIFY CRICKS BY DYE PENETRANT INSPECTION IF MOSSIBLE. |
| e spars | NAS. | G | SINGLE LOOSE RIVET WILL BE ACCEPTABLE. | INDICATIONS OF LOOSE RIVETS, VISIBLE WEAR RESIDUE (DARK RING) APOAD NEAD, DETERIORATED PAINT AND PRIMER AROAD NEAD, SPOUP OF SEVERAL CONSECUTIVE RIVETS IT/PEPE IN SAME DIRECTION, VISIBLE SPACE NADE, NEAD, AND/OR MOVE RIVET WITH FINGER PRESAME. |
| | BUCKLED | 8 | Hone | SIEET METAL THAT HAS BEEN WARPED, KINKED, DEFORMED BY AN |
| | THPORARY PEPAIR | ٧ | REPAIRS AUTHORIZED BY EXISTING TECHNICAL DATA AND OF GOOD CHALITY WHICH CORRECT A DAMAGED AREA. THESE REPAIRS ARE CONSIDERED PERMANENT REPAIRS AND SMALL NOT BE MARKED. | REPAIRS WHICH ARE NOT EIZUAL TO OR BETTER THAN THE ORIGINAL STRUCTURE. |
| | CORPODED | D | SURFACE CORROSION WHICH CAN BE HIPED AWAY WITH A CLOTH AND PITTING DEPTH IS 10% OR LESS THAN THE MATERIAL THICKNESS. APER OF CORROSION SHALL BE 10% OR LESS THAN THE SURFACE AREA OF THE PART. | CORROSION WHICH CAN NOT BE WIPED AMAY AND/OR PITTINGS IS ONER IND OF MALERIAL THICKNESS. CORRODED AREA IS MORE THAN ICE. OF THE TOTAL SURFACE OF THE PART. |
| | RIVERS IN | 2 | NAME NOTE: IF UNDCCEPTABLE BOLTS MIVE BEEN INSTALLED AND THE NE LIMITEATING DAYS NOT HAVE THE CODE OFF. INPROPER HAMDWARE, WE THIS CODE TO SHAM DEFECT. | CLOSE TOLERANCE BOLTS LISTED IN APPENDIX H ARE ACCEPTABLE SUBSTITUTES FOR HIS-SHEAR RIVETS AND HIS-LOCK FASTERERS. IF ANY OF 17858 BOLTS HAVE BELT INSTALLED IN A CHITICAL AREA, E.G., HIGH STRESS AREAS OR INTERLHANGEABLE (HARD) POINTS, MARY THIS CODE. |
| | IMPRIPER HANDWARE | 1 | tione | ANY MARIMME LISED AS A SUBSTITUTE FOR CRIGINAL MARIMAL AND MAS NOT BEEN APPROVED BY EXISTING TECHNICAL DATA. LOWEL: UNAPPROVED BOLTS REPLACING HI-SHEAR RIVETS OR HI-LUCK SASTEMERS |
| | CRATUILD | 4 | SUPERFICERS SCHARCIES WHICH ARE BUT DEEPER THAT ICE. IN SATERIAL THICKNESS OR LESS THAN SID HERE DEEP. | SCRATURES WHICH WILL EXCEED IUS OF THE MATERIAL THICKNESS ON OVER UILD THEN DEEP AFTER CLEARUP |
| HIPING | HETERIOR- | C | Hone | CHANNAL CABLE HISULATION WHICH IS OIL & MYDRAILLI FLUID SOAKED LIECK CARLE BY ROLLING TISULATION BETWEEN THAND & HOUR FINGER. If INVALATION ROLLS HERE OF MINING, THE CADLE IS DETERIOPATED. |
| | | | | DISCUSCIPED WIRES (BIRDAY OR LIREY) INDICATE OVERHEATING. IF DISCOURACTION IS MORE THAN THREE (3) INCHES ON ANY WIRE, "MARK WIRE INTEREDISTANCE OF THE PROPERTY OF THE PROPERT |
| 1 | (RAUXED) | <u> </u> | CRACKED INSULATION OF OTH WINE OF ANY THE BUIDLE. | CRACKED INSULATION ON TWO (2) OR HORE WIRES IN ANY BURDLE. |
| | TEMPCRARY REPAIR | ٧ | REPAIRS WHICH ARE US ILOU GUALITY AND PHEVENT CONTAMINATION AND SALETS. | REPAIRS NOT MEETING NEGLIGIBLE DEFECT CRITERIA. MIRE BURDLES IN MICH ALL WIRES HAVE BEEN SPLICED AT ONE LICATION. |
| 1. | CATOD | Ħ | | PRINT COVERAGE CUMPLETE. FEW CRACKS ON PAINT OR RIVET HEADS. |
| ļ | FAIR | ı | | GENERAL CRACKING OF PAINT OF KINET HEADS. "NOST RIVET HEADS STILL COVERED. FLAT STAFFALES HEARLY COMPLETELY FOVERED. |
| Ł | HUCP | * | | NOST RIVET HEADS PARTLY BANE, LIME CHIPPYINS IT PAINT ON APPROPRIATELY 1/3 OF CYTERION SUMFACE. PAINT LIECTED ON FLAT SUMFACES ON 1/3 OF CYTERION |
| }, | FILRIOR- | (| | The time 1/3 or extense enthits cultime is exact. This applies each train outliness with any course. Use the sist Greeners |

In evaluating repairs, special care should be taken to distinguish permanent repairs from temporary repairs. Each repair of a defect (for example, punctures, cracks, dents, contamination, and delamination) in an indicator area is evaluated on its own merit. Authorized permanent repairs are not repaired or replaced and, therefore, no weighted condition codes are marked (unless they exceed one repair per pocket on bonded panels) on the ACE worksheet; temporary repairs are assessed points via applicable condition codes. The following are definitions of permanent and temporary repair.

Permanent Repair - A repair authorized by existing technical data and of good appearance which is sufficient to compensate for the damaged area. Wiring repair is of a nature to disallow contamination and shorts. Sheet metal repairs are standard with quality built in (edge distance, size and number of rivets, spacing and coatings). Honeycomb structure repairs are high quality bonded patches or fills. Patches on panels do not exceed one patch per pocket. (Additional patches change the rigidity of the panel and cause premature failure of adjacent structure.) Permanent repairs are not considered as detracting from the structural, sheet metal or electrical integrity of the aircraft.

Temporary Repair — Any repair not meeting the above criteria and not equal to the original structure, sheet metal, or wiring standards (including only one repair per pocket on bonded panel).

Once the worksheet(s) for a specific profile are completed, the information is transferred onto a summary form. To ensure the validity of all data gathered, the ACE/AACE team leader must sign all completed worksheets and the summary form. Appendix A contains an example of a worksheet and summary form and the cor'es needed to complete all the forms. Appendix B identifies various Army forms that may be used by an ACE profiler.

Performance of ACE qualifies for the significant historical data criteria of TM 38-750 therefore, performance of the evaluation should be documented on DA Form 2408-15 (see Appendix B). The standard entry is as follows:

| OCM/ACE PERFORMED | A/C RS, AT | BY ACE |
|-------------------|-----------------------------|--------|
| TEAM MEMBER | _ AVSCOM OCM SEC. ST. LOUIS | , MO. |

Upon completion of the aircraft profile, the master record, worksheets, and summary forms are sent to the following address for data compilation:

Commander
U.S. Army Aviation Systems Command
ATTN: AMSAV-MPDOP
4300 Goodfellow Blvd.
St. Louis, MO 63120

3.0 AACE PROFILING GUIDELINES

Profiling an aircraft in accordance with the aircraft analytical corrosion evaluation (AACE) procedure involves carefully examining the basic aircraft structure for corrosion defects. As with the airframe condition evaluation (ACE), pre-selected indicators and applicable corrosion codes are used to assess the exterior areas of components, both structural and dynamic. The criteria for selecting corrosion indicators are, in part, based upon providing simplicity of inspection conduct. Therefore, the indicators are easily detected and readily accessible. Table 3-1 presents the estimated times to complete an ACE/AACE profile for specific aircraft. The inspection does not apply in any way to aircraft that experience damage from combat operations, crashes, or accidents. The AACE inspection is performed in conjunction with the ACE by the ACE/AACE team.

Table 3-1 Estimated ACE/AACE Examination Times

| Aircraft Type | Time (hrs. min.) (ACE) + (AACE) |
|---------------|---------------------------------|
| OH-58 | 1:05 + 2:00 |
| AH-1 | 2:05 + 2:00 |
| UH-1 | 1:35 + 2:00 |
| UH-60 | 2:45 + 2:00 |
| CH-47 | 3:05 + 2:00 |

Before inspection of the corrosion indicators, specified sections of the aircraft are exposed for viewing. All aircraft disassembly is performed by the operational unit, not the ACE/AACE team. The minimum desirable working team to be provided by the operational unit to aid in the inspection is a unit technical inspector and the aircraft crew chief. For the inspection, the unit technical inspector places the aircraft on a RED X. Upon inspection completion, the aircraft is returned to an appropriate status. Figure 3-1 provides an example of an aircraft preparation for AACE inspection.

The following equipment is possessed by each AACE profiler during aircraft inspection:

Two inspection mirrors.

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- Two three cell flashlights and spare batteries.
- One honeycomb sounding tool.
- Two rigid bristle brushes.
- Any technical manuals, Army adminstrative publications (i.e. regulations) and administrative publications of the Command, if needed.

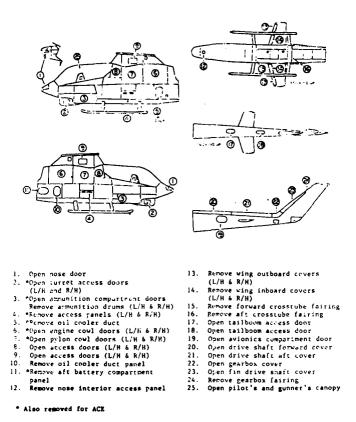


Figure 3-1 AH-1/TH-1 Preparation for AACE

Inspection Conduct

The indicators and applicable corrosion codes selected for each aircraft in the AACE program are used to inspect the basic fuselage structural members and dynamic components and component structures in an effort to detect general progressive deterioration of the aircraft due to the effects of corrosion. The ACE/AACE team examines the aircraft in an orderly manner, thereby accomplishing the inspection profile, and records the results using corrosion codes preestablished for each indicator. This is done in accordance with AVSCOM Pamphlet series 750-2, and the AACE worksheets provided therein, developed by the Depot Engineering and RCM Support Office. Each pamphlet delineates, in a systematic order, the indicators and corrosion codes selected for profiling a specific type of aircraft.

The matrix presented in Table 3-2 provides a comparison of all current indicators for the various aircraft participating in the AACE program. These indicators are provided for profilers on the worksheets contained in the applicable aircraft AVSCOM 750-2 Pamphlet.

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The corrosion codes are used to identify the condition of the indicator being inspected. Corrosion codes identify the level of maintenance and action needed. The selection of a corrosion code by the ACE/AACE team dictates the indicator weight (numerical value) for use in formulating the aircraft profile index. However, the ACE/AACE team does not have knowledge as to what the current indicator weights are. Table 3-3 presents the criteria corresponding to the various corrosion codes.

Appendix C provides material delineating the types and forms of corrosion as well as general guidelines for the examination and removal of corrosion. This appendix should be addressed, as needed, to maintain a consistent familiarization with corrosion characteristics.

The inspection proceeds in respect to the order of indicators on the applicable AACE worksheet(s) following a counterclockwise motion about the aircraft. The ACE/AACE team proceeds through the profile until an indicator deficiency is found. At this point, the applicable corrosion code is determined and circled on the worksheet. This process continues until the profile is completed.

Any safety-of-flight items that are discovered during the profile should be verbally brought to the attention of the unit technical inspector. In no case does the ACE/AACE team ground or suggest that an aircraft be grounded; this is a decision to be made by the unit technical inspector and/or maintenance officer.

Once the worksheet(s) for a specific profile are completed, the information is transferred onto a summary form. To ensure the validity of all data gathered, the ACE/AACE team leader must sign all completed AACE worksheets and summary forms. Appendix A contains an example of the worksheets and summary forms and also the codes needed to complete all the forms. Appendix B identifies various Army forms that may be used by an AACE profiler.

Table 3-2 Matrix of AACE Indicators

| AAGE V-32 | | 7 | 7 | 7 | 7 | 7 | 7 |
|--|-------------------|------|-----------------|------------|---------|-----|----------|
| AACE Indicators (Generalized) | Airerafe III | ′. / | / | / * / | / ہ. / | ′ / | ′ / |
| / | .z ^z / | ž/, | #/ _a | %\/ | `\$\\\; | 3/3 | 3 |
| Indicators | Ť/ Š | N/H/ | H / H | / 8 | | | |
| Nose Structure and Skin | • | • | • | • | • | | |
| XM-28 Fuselage Attach Points | | • | | | | | |
| Gunners Floor Area | | • | | | | | |
| Ammo Compartment Structures | | • | | | | | |
| Ammo Compartment Electrical | | • | | | | | |
| Pilots, Passenger, and Cargo Floor Areas, Above/Under | | • | | • | • | • | |
| Pilots Compartment Aft Bulkhead | | • | | | | | } |
| Hydraulic Compartment | | • | • | | | | |
| Stub Wing L/H and R/H | | • | |] | | | |
| Pylon Area, Supports | • | • | | • | | • | |
| Deck Areas | • | • | • | | • | | |
| Oil Cooler Compartment | | • | | | | | |
| Fuselage Exterior Skin L/H and R/H | | • | | • | • | | |
| Avionics Compartment | | • | | • | • | | } |
| Tailboom Attach Fittings | | • | • | • | | | |
| Tailboom Attach Bulkhead | | • | • | | | |] |
| Transmission Compartment | | • | • | | • | • | |
| Main Transmission | • | • | • | • | • | • | |
| Main Rotor Blades | • | • | • | • | | • | |
| Main Rotor Hub Assy | • | • | • | • | • | • | |
| Servo Flight Control Tubes | • | • | • | • | | | } |
| Mast Assy | • | • | • | • | • | • | |
| Swashplate, Support, Scissors, & Sleeve Assy | • | • | • | • | • | • | |
| | | | | | | | |

Table 3-2 Matrix of AACE Indicators (Cont'd)

| | | | | | | | _ |
|---|--|---------------------|--|----------|---------------------------------------|---------|-----|
| AACE Indicators | | | | | | | |
| (Generalized) | 4/ | '. / | ' > <i>!</i> | / * / | / ن / | ′ / | , |
| | Airera de Caractera de Caracter | | | *;\ | \$\\\\\ | \i\\ \$ | § / |
| Indicators | */ \$ | THE PERSON NAMED IN | THE STATE OF THE S | T. 8 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | |
| Tail Rotor Drive Shafting and Hanger Brackets | • | • | • | • | • | • | |
| 42° and 90° Gear Box Assy | • | • | • | • | | | |
| Tailboom Fin and Horiz Stabilizer Assy | • | • | • | • | | | |
| Tailboom Internal and External | • | • | • | • | | | |
| Pilots, Crew, and Cargo Doors | • | | • | • | | • | |
| Forward Tie Down Attach Fitting | • | | | | | | |
| Auxiliary Fuel Fittings | • | | | | | | |
| Forward and Aft Tunnel Areas | • | • | • | | | | |
| Forward, Center, and Aft Skin Areas | • | • | • | | • | • | |
| Forward Main Beam Panel Area | • | | • | | | | |
| Pylon Panels, Fwd and Aft | • | | | | | | |
| Main Lift Beam Assy | • | • | • | • | | | |
| Aft Cabin Lower and Upper Panels | • | | • | | | | |
| Upper Cap Angle | • | | | | | | |
| Radio Compartment Upper and Lower | • | | | - | | | İ |
| Electrical Compartments, Panels, Flooring | • | | | • | | • | |
| Battery Compartments, Panels, Flooring | • | | | | • | | |
| Canted Bulkhead and Split Deck Area | • | | | | | | |
| External Stores | • | | | | | | |
| Fwd Jacking and Mooring Fixture, L/H, R/H | | | • | | | | |
| Lower Skin Between Tunnel Areas | | | • | | | | |
| Fuel Cell Inboard, Outboard Panel Areas | | | • | | | | |
| Equipment Compartments | | | • | | • | | |
| Pylon Assy and Fifth Mount Support Area | | | • | | | | |
| | | | | | | | |

Table 3-2 Matrix of AACE Indicators (Cont'd)

| AACE Indicators (Generalized) Indicators | Aircraft. | In. In. C. | | | | |
|--|-----------|------------|---|---|---|--------------|
| Overhead Circuit Panel | | | • | | | |
| Aft, Fwd Crosstube Attach Areas | | | • | | | |
| Center Post Installation | | | • | | | |
| Root Sections, Panels | | | • | | | |
| Cyclic and Collective Control | | | • | • | • | |
| Aft, Fwd Fuselage, Internal | | | • | | | |
| Tail Rotor and Hub | | | • | | • | |
| Bulkhead Installation | | | • | | | |
| Tailcone Structure, Int/Ext. | | | | | • | |
| Cargo Hook and Support Beam | | | | | • | |
| Fwd, Aft Landing Gear and Attach Pts | | | | • | • | |
| Stabilator | | | | | • | |
| Storage Shelf | | | | | • | |
| Fwd, Aft Transition Structure, Internal | | | | | • | |
| Overhead Tunnel Areas | | | | • | | |
| Cargo Ramp and Castings | | | | • | | |
| Formers and Surroundings | | | | • | | |
| Fuel Pod | | | | • | | |
| Rescue Hatch Area | | | | • | | |
| Fuselage Structure, Companionway/Cargo Floor Access | | | | • | | |

Table 3-3 AACE Indicator Corrosion Codes and Criteria

| | | 3 | É | 9 | ê | (4) | ١ |
|--|---|--------------------|------------------|-----------------|----------------|--------------|----------------------|
| | AACE STABOL | () | ì | <u> </u> | } | <u> </u> | = |
| STRUCTURAL NEMBERS | CORROSION CRITERIA | | | | | | |
| SKINS, WEBS, COVERS, CONLINGS, AND FAIRINGS | CORROSION DEPTH, EIPRESSED AS A PERCENTAGE OF METAL, THICKNESS | \$001-01 | 1-10\$ | \$001-01 | 1-10\$ | 10-1008 | 1-105 |
| | COMPOSITION COVERAGE, EXPRESSED AS A PERCENTAGE OF | - 1001-05 | ANU | 10-50% | 10-25 | 1 201-1 | 101-101 |
| | CONTOMENT SURFACE ANEA | | | | | | |
| LONGERONS, CAPS STRINGERS | CORROSION DEPTH, EXPRESSED AS A PERCENTAGE OF HETAL THICKNESS | 25-100% 1-25% | 1.25 1.480 | 25-100\$ AND | 1 . S. | 25-100E | 1.25 |
| | CORROSION COVERAGE, EXPRESSED AS A PERCENTAGE OF COMPONENT LENGTH | _r | 3050\$ | 10-30\$ | | | 1-105 |
| BULLOHEADS, FORMENS, DECKS, AND SHELVES | CORROSION DEPTH, EXPRESSED AS A PERCENTAGE OF METAL. THICKNESS | \$01-01 \$001-01 | 1-10\$ | 10-100\$ | 1-105 | 10-100\$ | 1-105 |
| | CORROSION COVERACE, EXPRESSED AS A PERCENTAGE OF COMPONENT SURFACE AREA | 30-50\$ 50-100\$ | 30-50\$ | 3050\$ | 20-30\$ | | 1-20\$ |
| COMPOSITE PANELS (SOLID AND HOMEYCOMB) | CORE CORROSION, IN SQUARE INCHES OF SURFACE AREA | GREATER THAN | JACA | WI 05 C1-9 | SRUT | NO GREATER : | ТНАЖ |
| | SURFACE CORROSION, EXPRESSED AS A PERCENTAGE OF SURFACE AREA | 1501-98 | 1 500 | - AND - | \$2-01 | AND 0-10% | 1 <u> </u> |
| HOUSINGS, CASES, FITTINGS, AND SUPPORTS | CORROSION DEPTH, EXPRESSED AS A PERCENTAGE OF METAL THICKNESS | | | | | | |
| (CASTINGS AND FORGINGS) | CORPOSION COVERAGE, EXPRESSED AS A PERCENTAGE OF COMPONENT SURFACE AREA. | AND OR AND | - AND - S | AND | ONV . | ONV . | |
| FASTENERS - BOLTS, INSERTS, NUTS, AND | AREA OF CORROSION PITTING, EXPRESSED AS A PERCENTAGE OF VISIBLE SURFACE AREA | 2001-01 | | 10.100 | 301-1 | 300. 0 | 20 |
| RIVETS | ANOUNT OF AFFECTED FASTEMENS, EXPRESSED AS A | | - AND | - UND | ONA - | AND | Quy |
| | PENCENTAGE OF THE TOTAL NUMBER OF FASTENERS IN THE INDICATOR | 20-100≸ | 20-30\$ | 10-20\$ | 10-20\$ | 1-102 | 1-105 |
| SHAFTS AND TUBES | CORROSION DEPTH, EXPRESSED AS A PERCENTAGE OF METAL, THICKNESS | 5-100\$ | 1-5\$ | 5-100\$ | 1-5\$ | 5-100\$ | 1-5\$ |
| | CORROSION COVERACE, EXPRESSED AS A PERCENTAGE OF COMPONENTS SURFACE AREA | | KND | 10-20\$ | AND | AND | -AND |
| STIFFENERS, ANGLES, DOUBLERS, AND GUSSETS | l | | 1 01-1 | 10-100\$ | 3 01-1 | 10-100\$ | |
| | CUNROSION COFERAGE, EXPRESSEU AS A PENCENTAGE OF CONFIDENCE SURFACE AREA | 30-50\$ 150-100\$ | - AND - | 15-30\$ | 15/30 5 | AND 1-15\$ | - ABD 1 |
| SKIDS, AND LANDING | COMPOSION DEPTI EXPRESSED AS A PERCENTAGE OF METAL THICKNESS | | 1-5\$ | 5-100\$ AND | 1-58 Arm | \$-100\$ | 1-51 |
| GEAR | COMPOSION COVERACE, EXPRESSED AS A PERCENTACE OF COMPONENT SURFACE AREA | | 20-100\$ | 10-20\$ | 10-20\$ | 1-10\$ | 1-10\$ |
| ELECTRICAL CONNECTORS, | CORRUSION ON WIRING? | OVER 7 WIRES | 25 | 4-7 WIRES | 2 .5 | 1-3 VIRES | £ 5 |
| CONTURNIS, AND WARING | AREA OF CORROSION PITTING, EXPRESSED AS A PERCENTAGE OF VISIBLE SURFACE AREA OF 1TEM | 7-1005 AND | 1-58 1 AND - | 5-100% - AND | - 55. OMP | 5-100\$ | 1-58 -AND — |
| | ANCHAT OF AFFECTED HARDIARE, EXPRESSED AS A PERCENTACE OF TOTAL NUMBER OF ELECTRICAL ITBMS IN THE INDICATOR | 50-100\$ | 50-100\$ | 30-50\$ | 30-508 | 1-30% | 1-30% |
| | | | | | | | |

Performance of AACE qualifies for the significant historical data criteria of TM 38-750; therefore, accomplishment of the inspection is entered on DA Form 2408-15 (see Appendix B). The standard entry is as follows:

| OCM/ACE PERFORMED | A/C RS, AT | BY | ACE |
|-------------------|----------------------------|----|-----|
| TEAM MEMBER | AVSCOM OCM SEC. ST. LOUIS, | MC |). |

Upon completion of the aircraft profile, the master record, worksheets, and summary sheets are sent to the following address for data compilation:

Commander
U.S. Army Aviation Systems Command
ATTN: AMSAV-MPDOP
4300 Goodfellow Blvd.
St. Louis, MO 63120

APPENDIX A

FORMS AND COMPLETION DATA

This appendix contains an example of both an ACE and AACE worksheet and summary form. It also contains the geographical codes, command codes, aircraft special mission codes, and Julian date calendar needed to complete the ACE/AACE worksheets and summary forms.

ACE Worksheet (Example, page 1 of 2)

| AIRFRAME | CONDITION EVALU | IATION | ATION MASTER EAM UNIT AREA LOCATI | | | | | | | | |
|-----------------|------------------------------|--------|---------------------------------------|-------------|-------------|---------------------------------------|----------|----|--|--|--|
| | (ACE) | | | ì | | | i | | | | |
| | UH-1B/C/M | | | 1 | | | i | | | | |
| | TUW | | | | | | | | | | |
| AVSCO | 1 PAM 750-1 (4) | | | · | 1 | | ĺ | | | | |
| Card Col | PROFILE | | <u></u> | INDICATOR | NOMENCLATU | ₹E | ITEM | - | | | |
|)] | TUW | TYPE | TYPE/MODEL/SERIES | | | | | | | | |
| 2-08 | 1 | | ERIAL NUMBER | | | | | | | | |
| 19 | 1 | | PECIAL MISSION 3 | | | | | | | | |
| 0 | | MAJO | AJOR COMMAND 4 | | | | | | | | |
| 1-12 | Ī | GEOG | RAPHICAL LO | OCATION _ | | | 5 | T | | | |
| 13-16 | | JULI | JULIAN DATE OF ACE | | | | | | | | |
| 17 | NO | A/C | A/C NEW OR OVERHAULED | | | | | | | | |
| 18 | CNPSK | O/H | ВҮ | | | | 8 | 1_ | | | |
| 9-22 | | A/C | A/C HRS AT TIME OF OVERHAUL | | | | | | | | |
| 23-26 | L | JULI | AN DATE OF | OVERHAUL | | | 10 |] | | | |
| 27-30 | | | L HRS ON A | | | | 11 |] | | | |
| 31 | CKLM | OVER | ALL CONDIT | ION | | | 12 | 1 | | | |
| 32 | CKLM | | T CONDITION | | | | 13 | I | | | |
| 33 | EGFYR | | | r upper & I | | | 14 | 1_ | | | |
| 34 | EGBYR | | | ER FRAME L | | | 15 | Ī | | | |
| 35 | SCYJDUR | | | N BULKHEAD | | | 16 | 1_ | | | |
| 36 | SCYJDUR | | FUEL CELL FORWARD BULKHEAD PANEL L/H | | | | | | | | |
| 37 | ISCYJDUR | UPPE | UPPER AFT CABIN BULKHEAD CENTER PANEL | | | | | | | | |
| 38 | SCYJDUR | | UPPER AFT CABIN BULKHEAD PANEL R/H | | | | | | | | |
| 39 | SCYJDUR | | | | D PANEL R/ | н | 16 | 1_ | | | |
| 40 ' | SCYJDUR | | FUEL CELL UPPER OUTBOARD PANEL 1./H | | | | | | | | |
| 41 | ISCYJDUR | FUEL | CELL CENT | ER OUTBOARI | PANEL L/H | | 16 | ┺ | | | |
| 42 | IS C Y J D U R | | | R OUTBOARD | | | 16 | 1 | | | |
| 43 | SCYJDUR | | | R AFT BULK | | | 15 | 1 | | | |
| 44 | SCYJDUR | | | R AFT BULK | | | 16 | 1 | | | |
| 45 | EAYR | | | TRACK /H | | | 17 | 1 | | | |
| 46 | EAYR | _ | | TRACK L/H | 6 R/H | | 17 | į | | | |
| 47 | ISCYJDUR | | DECK PANE | | | | 16 | 1 | | | |
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| 49 | EGBYR | | | ERTICAL WE | <u> </u> | | 18 | 4 | | | |
| 50 | EGBYR | TAIL | BOOM VERTI | CAL SKIN_ | | | 19 | ᅪᅳ | | | |
| 51 | EGZR | TAIL | BOOM ATTAC | H FITTING U | PPER & LOW | EK L/H | 20 | 4 | | | |
| 52 | EGZR | | | | PPER & LOW | EK K/H | 20 | ╆╾ | | | |
| 53 . | SCYJDUR | FUEL | L CELL AFT | BULKHEAD | ANEL K/H | | 16 | 1 | | | |
| 54 | SCYJDUR | FUEL | CELL UPPE | R OUTBOARD | PANEL K/H | | 16 16 | ╂~ | | | |
| 55 | SCYJDUR | | | R OUTBOARD | TANEL K/H | | 16 | 1 | | | |
| 56 | SCYJDUR | WORK | DECK PANE | L K/H | NECK | | 16 | 1 | | | |
| 57 | SCYJDUR | CENT | ER SERVICE | (ENGINE) | WERC I /U | £ p/ü | 21 | 1 | | | |
| <u>58</u> 59 | EGBYR | | | | . WEBS, L/H | G IV/II | 22 | 1 | | | |
| | EGYR | | H MOUNT AT | | HI_CHEADS | | 23 | 1 | | | |
| 60 | EGYTZR | | DECK PANE | | HI-SHEARS | · · · · · · · · · · · · · · · · · · · | 16 | f | | | |
| <u>61</u> 62 | S C Y J D U R E G B Y A R | | | ER FRAME R | /н | | 15 | t | | | |
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AACE Worksheet (Example, page 1 of 2)

| | ANALYTICAL CORRO | OSION | MASTER | EAM | UNIT | AREA | LOCATION | .OCATION | | | |
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| 01 | } | | TYPE/MODEL/SERIES | | | | | | | | |
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| 09 | | SPEC | PECIAL MISSION | | | | | | | | |
| 10 | ļ | MAJO | IAJOR COMMAND : | | | | | | | | |
| 11-12 | | | PRESENT LOCATION OF A/C | | | | | | | | |
| 13-16 | } | | JULIAN DATE OF INSPECTION | | | | | | | | |
| 17-20 | | | | TERING PRES | | | | 7 | | | |
| 21-24 | | | | TERING PREV | IOUS LOCAT | ION | 8 9 | ┥ | | | |
| 25 | <u> </u> | | PREVIOUS MAJOR COMMAND | | | | | | | | |
| 26-27 | <u> </u> | | PREVIOUS CEOGRAPHICAL LOCATION | | | | | | | | |
| 28-31 | | | HOURS ON | A/C | | | 11 | 4 | | | |
| 32 | ABCDEFR | | SECTION | | | | 12 | 100 | | | |
| 33 | ABCDEFR | | | 1, FORWARD | | BE | 13 | - ≋ | | | |
| 34 | ABCDEFR | | | JBE ATTACH | | | 13 | - ≃ | | | |
| 35 | ABCDEFR | | FUSELAGE BOTTOM, BETWEEN CROSSTUBES | | | | | | | | |
| 36 | ABCDEFR | | AFT CROSSTUBE ATTACH AREA | | | | | | | | |
| 37 | ABCDEFR | | FUSELAGE BOTTOM, BETWEEN CROSSTUBE & TAILBOOM | | | | | | | | |
| 38 | ABCDEFR | COPII | COPILOT'S DOOR AND DOORFRAME AREA | | | | | | | | |
| 39 | ABCDEFR | COPI | COPILOT'S FLOOR AND SEAT AREA | | | | | | | | |
| 40 | ABCDEFR | OVER | OVERHEAD CIRCUIT BREAKER | | | | | | | | |
| 41 | ABCDEFR | | BULKHEAD INSTALLATION, L/H | | | | | | | | |
| 42 | ABCDEFR | LEFT | PASSENGER | DOOR AND D | OORFRAME A | REA | 15 | ╁╌ | | | |
| 43 | ABCDEFR | CENT | RPOST INST | ALLATION, | L/H | | 19 | ┦ | | | |
| 44 | ABCDEFR | | | SEAT. & | SEATBACK I | nstall. L/ | | 4 3 | | | |
| 45 | ABCDEFR | | CABIN ROC | | | | 21 | 1 | | | |
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| 58 | ABCDEFR | TAILE | OOM FIN AN | D HORIZONT | AL STABILI | ZER | 32 | | | | |
| 59 | ABCDEFR | TAILE | OOM ATTACH | FITTINGS | , | | 33 | E | | | |
| 60 | ABCDEFR | AFT I | USELAGE, 1 | INTERNAL | , | | 34 | | | | |
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ACE Summary Form (Example)

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A-4

AACE Summary Form (Example)

| 2 3 4 5 6 7 8 9 10 11 12 11 14 15 16 17 18 19 20 21 22 23 24 LOC CODE HRS ON A/C AIRCRAFT ANALTTICAL CORROSION CODE 2 2 2 2 2 2 2 2 3 4 5 5 5 5 5 5 7 |
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Data Recording Codes

Geographical Location Codes (States)

| AL Alabama | HI Hawaii | MA Massachusett | NM Mew Mexico | SD South Dakota |
|----------------|--------------|-----------------|-------------------|------------------|
| AK Alaska | ID Idaho | MI Michigan | NY New York | TN Tennessee |
| AZ Arizona | IL Illinois | MN Minnosota | NC North Carolina | TX Texas |
| AR Arkansas | IN Indiana | MS Mississippi | ND North Dakota | UT Utah |
| CA California | IA Iowa | MO Missouri | OH Ohio | VT Vermont |
| CO Colorado | KS Kansas | MT Montana | OK Oklahoma | VA Virginia |
| CT Connecticut | KY Kentucky | NE Nebraska | OR Oregon | WA Washington |
| DE Delaware | LA Louisiana | NV Nevada | PA Pennsylvania | WV West Virginia |
| FL Florida | ME Maine | NH New Hamphire | RI Rhode Island | WI Wisconsin |
| GA Georgia | MD Maryland | NJ New Jersey | SC South Carolina | Wy Wyoming |

Geographical Location Codes

| | Europe | <u> P</u> | acific | So | uthern |
|----|---------|-----------|-----------|----|------------|
| BZ | Belgium | AY | Japan | ХA | Panama |
| CZ | Germany | BY | Kwajalein | BX | Puerto Ric |
| DZ | Greece | CY | Korea | | |
| ΕZ | Italy | | | | |
| FΖ | Turkey | | | | |

Command Codes

| A - DARCOM | H - BLANK | R - US ARMY RESERVE |
|--------------------|----------------------------|-----------------------------------|
| B - BAILED | J - JAPAN | S - STORED |
| C - TSARCOM (NICP) | K - MLDFCMD (KAWJALEIN) | T - TRADOC |
| D - DCSPER | L - LOANED | U - EIGHTH US ARMY KOREA |
| E – USAREUR | M - MDW | V - USARSO |
| F - FORSCOM | N - US ARMY NATIONAL GUARD | W - OTHER: REDCOM, TSG, HEALTH SV |
| G - BLANK | P - WESTCOM | X - STATE DEPARTMENT |

Aircraft Special Mission Codes

| 2 - Reserved | 6 - Fire Equipped |
|------------------------|----------------------------|
| 3 - Non Standard Paint | 7 - Electronic Equipped |
| 4 - VIP/AC | 8 - Weapon Equipped |
| 5 - Medivac Equipped | 0 - Standard Configuration |

JULIAN DATE CALENDAR

(PERPETUAL)

| Day | Jon | Feb | Mar | Apr | May | June | July | Aug | Sep | Oct | Nov | Dec | Day |
|-----|-----|-----|-------|------|------|------|-------|-----|-----|------|-----|-----|-----|
| 1 | 001 | 032 | 060 | 091 | 121 | 152 | 182 | 213 | 244 | 274 | 305 | 335 | 1 |
| 2 | 002 | 033 | 061 | 092 | 122 | 153 | 183 | 214 | 245 | 275 | 306 | 336 | 2 |
| 3 | 003 | 034 | 062 | 093 | 123 | 154 | 184 | 215 | 246 | 276 | 307 | 337 | 3 |
| 4 | 004 | 035 | 063 | 094 | 124 | 155 | 185 | 216 | 247 | 277 | 308 | 338 | 4 |
| 5 | 005 | 036 | 064 | 095 | 125 | 156 | 166 | 217 | 248 | 278 | 309 | 339 | 5 . |
| 6 | 006 | 037 | 065 | 096 | 126 | 157 | 187 | 218 | 249 | 279 | 310 | 340 | 6 |
| 7 | 007 | 038 | 066 | 097 | 127 | 158 | 188 | 219 | 250 | 280 | 311 | 341 | 7 |
| 8 | 008 | 039 | 067 | 098 | 128 | 159 | 189 | 220 | 251 | 281 | 312 | 342 | 8 |
| 9 | 009 | 040 | 068 | 099 | 129 | 160 | 190 | 221 | 252 | 282 | 313 | 343 | 9 |
| 10 | 010 | 041 | 069 | 100 | 130 | 161 | 191 | 222 | 253 | 283 | 314 | 344 | 10 |
| 11 | 011 | 042 | 070 | 101 | 131 | 162 | 192 · | 223 | 254 | 284 | 315 | 345 | 11 |
| 12 | 012 | 043 | 071 | 102 | 132 | 163 | 193. | 224 | 255 | 285 | 316 | 346 | 12 |
| 13 | 013 | 044 | 072 | 103 | 133 | 164 | 194 | 225 | 256 | 286 | 317 | 347 | 13 |
| 14 | 014 | 045 | 073 | 104 | 134 | 165 | 195 | 226 | 257 | 287 | 318 | 348 | 14 |
| 15 | 015 | 046 | 074 | 105 | 135 | 166 | 196 | 227 | 258 | -288 | 319 | 349 | 15 |
| 16 | 016 | 047 | 075 | 106 | 136 | 167 | 197 | 228 | 269 | 289 | 320 | 350 | 10 |
| 17 | 017 | 048 | 076 | 107 | 137 | 168 | 198 | 229 | 260 | 290 | 321 | 351 | 17 |
| 18 | 018 | 049 | 077 | 108 | 138 | 169 | 199 | 230 | 261 | 291 | 322 | 352 | 18 |
| 19 | 019 | 050 | 078 | 109 | 139 | 170 | 200 | 231 | 262 | 292 | 323 | 353 | 19 |
| 20 | 020 | 051 | 079 | 110 | 140 | 171 | 201 | 232 | 263 | 293 | 324 | 354 | 20 |
| 21 | 021 | 052 | 080 | 111. | 141 | 172 | 202 | 233 | 264 | 294 | 325 | 355 | 21 |
| 22 | 022 | 053 | 081. | 112 | 142 | 173 | 203 | 234 | 265 | 295 | 326 | 356 | 22 |
| 23 | 023 | 054 | 082 | 113 | 143 | 174 | 204 | 235 | 266 | 296 | 327 | 357 | 23 |
| 24 | 024 | 055 | 083 | 114 | 144 | 175 | 205 | 236 | 267 | 297 | 328 | 358 | 24 |
| 25 | 025 | 056 | 084 | 115 | 145 | 176 | 206 | 237 | 268 | 298 | 329 | 359 | 25 |
| 26 | 026 | 057 | 085 | 116 | 146 | 177 | 207 | 238 | 269 | 299 | 330 | 360 | 26 |
| 27 | 027 | 058 | 086 | 117 | 147 | 178 | 208 | 239 | 270 | 300 | 331 | 361 | 27 |
| 28 | 028 | 059 | 087 | 118 | .148 | 179 | 209 | 240 | 271 | 301 | 332 | 362 | 28 |
| 29 | 029 | | 088 1 | 119 | 149 | 180 | 210 | 241 | 272 | 302 | 333 | 363 | 29 |
| 30 | 030 | | 089 | 120 | 150 | 181 | 211 | 242 | 273 | 303 | 334 | 364 | 30 |
| 31 | 031 | | 090 | | 151 | | 212 | 243 | | 304 | | 365 | 31 |

FOR LEAP YEAR USE REVERSE SIDE

JULIAN DATE CALENDAR

FOR LEAP YEARS ONLY

| Day | Jon | Feb | Mar | Apr | May | June | July | Aug | Sep | Oct | Nov | Dec | Day |
|-----|-----|-----|-------|-----|-----|------|------|-------|-----|-----|------|-------|-----|
| 1 | 001 | 032 | 061 | 092 | 122 | 153 | 183 | 214 | 245 | 275 | 306 | 336 | 1 |
| 2 | 002 | 033 | 062 | 093 | 123 | 154 | 184 | 215 | 246 | 276 | 307 | 337 | 2 |
| 3 | 003 | 034 | 063 | 094 | 124 | 155 | 185 | 216 | 247 | 277 | 308 | · 338 | 3 |
| 4 | 004 | 035 | 064 | 095 | 125 | 156 | 186 | 217 | 248 | 278 | 309 | 339 | 4 |
| 5 | 005 | 036 | 065 | 096 | 126 | 157 | 187 | 218 | 249 | 279 | 310 | 340 | 5 |
| 6 | 006 | 037 | 066 | 097 | 127 | 158 | 188 | 219 | 250 | 280 | 311 | 341 | 6 |
| .7 | 007 | 038 | 067 | 098 | 128 | 159 | 189 | 220 | 251 | 281 | 312 | 342 | 7 |
| 8 | 008 | 039 | 068 | 099 | 129 | 160 | 190 | 221 | 252 | 282 | 313 | 343 | 8 |
| 9 | 009 | 040 | 069 | 100 | 130 | 161 | 191 | 222 | 253 | 283 | 314 | 344 | 9 |
| 10 | 010 | 041 | 070 | 101 | 131 | 162 | 192 | 223 | 254 | 284 | 315 | 345 | 10 |
| 11 | 011 | 042 | 071 | 102 | 132 | 163 | 193 | 224 . | 255 | 285 | 316 | 346 | 11 |
| 12 | 012 | 043 | 072 | 103 | 133 | 164 | 194 | 225 | 256 | 286 | 317 | 347 | 12 |
| 13 | 013 | 044 | 073 | 104 | 134 | 165 | 195 | 226 | 257 | 287 | 318 | 348 | 13 |
| 14 | 014 | 045 | 074 | 105 | 135 | 166 | 196 | 227 | 258 | 288 | 319 | 349 | 14 |
| 15 | 015 | 046 | 075 | 106 | 136 | 167 | 197 | 228 | 259 | 289 | 320 | 350 | 15 |
| 16 | 016 | 047 | 076 | 107 | 137 | 168 | 198 | 229 | 260 | 290 | 321 | 351 | 16 |
| 17 | 017 | 048 | 077 | 108 | 138 | 169 | 199 | 230 | 261 | 291 | 322 | 352 | 17 |
| 18 | 018 | 049 | 078 | 109 | 139 | 170 | 200 | 231 | 262 | 292 | 323 | 353 | 18 |
| 19 | 019 | 050 | 079 | 110 | 140 | 171 | 201 | 232 | 263 | 293 | 324 | 354 | 19 |
| 20 | 020 | 051 | 080 | 111 | 141 | 172 | 202 | 233 | 264 | 294 | 325 | 355 | 20 |
| 21 | 021 | 052 | 081 | 112 | 142 | 173 | 203 | 234 | 265 | 295 | 326 | 356 | 21 |
| 22 | 022 | 053 | 082 | 113 | 143 | 174 | 204 | 235 | 266 | 296 | 327 | 357 | 22 |
| 23 | 023 | 054 | 083 | 114 | 144 | 175 | 205 | 236 | 267 | 297 | 328 | 358 | 23 |
| 24 | 024 | 055 | 084 | 115 | 145 | 176 | 206 | 237 | 268 | 298 | 329. | 359 | 24 |
| 25 | 025 | 056 | 085 | 116 | 146 | 177 | 207 | 238 | 269 | 299 | 330 | 360 | 25 |
| 26 | 026 | 057 | 086 | 117 | 147 | 178 | 208 | 239 | 270 | 300 | 331 | 361 | 26 |
| 27 | 027 | 058 | 087 | 118 | 148 | 179 | 209 | 240 | 271 | 301 | 332 | 362 | 27 |
| 28 | 028 | 059 | - 088 | 119 | 149 | 180 | 210 | 241 | 272 | 302 | 333 | 363 | 28 |
| 29 | 029 | 060 | 089 | 120 | 150 | 181 | 211 | 242 | 273 | 303 | 334 | 364 | 29 |
| 30 | 030 | | 090 | 12i | 151 | 182 | 212 | 243 | 274 | 304 | 335 | 365 | 30 |
| 31 | 031 | | 091 | | 152 | | 213 | 244 | | 305 | | 366 | 31 |

(USE IN 1964, 1968, 1972, etc.)

APPENDIX B

ARMY AIRCRAFT LOGBOOK LIST

This appendix contains a listing of forms used within Army aviation having information and data relevant to the planning and analysis and aircraft profiling performed in ACE/AACE.

Army Aircraft Logbook Forms

| Form number | Title | Use | Disposition |
|-----------------|--|--|--|
| DA Form 2408 | Equipment Log Assembly (Records) | Gives a reference to symbols used in logbook. | Remains in front of logbook. |
| DA Form 2408-4 | Wenpon Record Data | To provide a continuous record of firings and component replacements on armament system and subsyster (s). Maintained in the aucraft logbook on which the armament is mounted. | Form attached to weapon when evacuated or stored. Form destroyed and new one initiated upon overhaul or rebuild of weapon. Form filed, data transferred to new form. Filled form retained 90 days or until new form is filled, whichever occurs first, then destroyed. |
| DA Form 2408-5 | Equipment Modification Record | To record data about modification on assemblies or components. | In lugbook for equipment on which assembly is installed. Accompanies seembly when it is removed and placed on another end item. |
| DA Form 2408-9 | Equipment Control Record | To provide initial basic equipment acceptance and identification information. Also provides means for updating information on ownership, location, usage, transfers, gains, losses, overhaul and rebuild, and disposition. | Disposition varies in accordance with form use. Instructions contained in TM 38-750 and TM 38-750-1. |
| DA Form 2408-12 | Army Aviator's Flight Record | To record aircraft time and mission, and to record duty and type of flight performed by the aviator and crew. | Sent to the operations office at the end of each day. Destroyed after 3 months. |
| DA Form 2408-13 | Aircraft Inspection and Maintenance Record | To record aircraft faults and action taken to correct them; to show flying hours, maintenance performed, and when inspections become due. | Sent at the end of each day to the eircraft maintenance office of the activity main- taining the aircraft. Destroyed after 6 months. |
| DA Form 2408-14 | Uncorrected Fault Record | To list uncorrected faults on aircreft, including overdue replacement of components. | Destroyed 6 months after date of last entry. |
| DA Form 2408-15 | Historical Record for Air- craft | To record historical data about an aircraft. | Permanent record in loglwok, accompanies aircraft on transfer. |
| DA Form 2408-16 | Aircraft Component Historical Record | To record historical data about aircraft components. | Permanent record in air- craft logbook; accompanies component on transfer. |
| DA Form 2408-17 | Aircraft Inventory Record | Liets all property assigned to an aircraft, used to record periodic inventories of property. | A permanent part of the sircenft logbook. |
| DA Form 2408-18 | Equipment Inspection List | To record most inspections on aircraft and components; provides record of component replacement. | Permanent record in loghook; accompanies air- craft on transfer. |
| DA Form 2409-19 | Aircraft Engine Turbine Wheel Historical Record | To determine whether the turbine wheel can be overhauled or not and which of its parts should be replaced. | Retained with the turbine wheel throughout its service life. |

APPENDIX C

CORROSION FORMS AND CAUSES

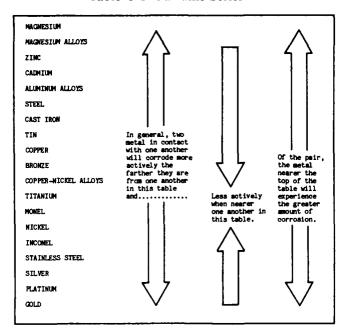
This appendix contains general information to familiarize a profiler with the nature, appearance, and causes of the various forms of corrosion.

CORROSION FORMS AND CAUSES

Corrosion is caused by the presence of salt in moist air, certain chemicals in water, elements in metal, treatment of parts, and contact of dissimilar metals. High temperature and moisture are drivers of fungus and bacterial growth which produce acids and other products which expedite corrosion etching of surfaces and oxidation. Corrosion is normally not as prevalent on painted, clad, or plated surfaces. The following types of corrosion are encountered:

- Superficial Corrosion This type is the least serious on alclad parts. After deposits are removed, an etching is noticeable which results in the clad surface having a series of hills and valleys. Provided the etching has not reached the core, the effect on the strength of the metal is negligible. Corrosion of this same type on non-clad alloy parts is serious.
- Intergranular Corrosion This type of corrosion is not easily detected.
 It is caused by imperfect heat treatment and occurs mostly in unclad structural aluminum alloy parts. It is the most dangerous form of corrosion for sheet stock because the strength of the metal is lowered without visible structural indicators.
- Stress Corrosion This type occurs in a part along the line of grain flow if the part is stressed too high without proper heat treatment.
- Galvanic Corrosion This type of corrosion occurs when dissimilar metals are in contact and an electrolyte is present at the joint between the metals. For example, aluminum and magnesium skins riveted together form a galvanic couple if moisture and contamination are present. When aluminum pieces are attached with steel bolts or screws, galvanic corrosion occurs between the aluminum and the steel. Table C-1 presents a galvanic series chart. Metals close togther, as illustrated in the table, have no strong tendency to produce galvanic corrosion and are relatively safe to use in contact with each other. The coupling of metals and the distance from each other in the table dictate the galvanic or accelerated corrosion of the metal higher on the table. The farther apart the metals are in the table, the greater is the galvanic tendency, as determined by measurement of the electrical potential difference between them.
- Hydroscopic Material Corrosion This type of corrosion is caused by such materials as sponge rubber, felt, cork, etc., absorbing water and holding it in contact with the part.

Table C-1 Galvanic Series



The extent and form of corrosion is determined primarily through visual and dimensional nondestructive inspection methods. A secondary method is penetrating radiation (radiography), but this method is not commonly used. When examining corrosion, a fine pointed instrument is used to test the area, but caution must be taken to not further damage the area. It may be necessary to remove scales and powdery deposits before examination can occur.

Indicators of corrosion include brinelling, fretting, scuffing, slatting, galling, etching, abrading, etc. For example, electrolytic action causes the formation of slats and deep etching of surfaces. This occurs at riveted and bolted joints, bearings, slides, and screw threads. Table C-2 provides a list of alloys commonly used in aircraft structure and identifies the nature and appearance of corrosion as it occurs on each alloy.

To remove corrosion from steel alloys, the following methods are applicable: hot-alkali soak, abrasive-blast, wire brush, grind, phosphoric acid treatment, flame descale, etc. Caution is needed when removing corrosion to prevent possible dust explosions. Goggles or a face shield should be worn when utilizing wire brush, grinder, or abrasive-blast removal methods.

To remove corrosion from aluminum-base alloy materials, chromic acid treatment is applicable. Anodic treatment by the chromic acid process increases corrosion resistance and provides a surface that ensures proper adherence of finishes, (for example, paint).

Table C-2 Nature and Appearance of Corrosion

| ALLOYS | TYPE OF ATTACK TO WHICH ALLOY IS SUSCEPTIBLE | APPEARANCE OF CORROSION PRODUCT |
|---|--|--|
| Aluminum Alloy | Surface pitting, intergranular and exfoliation. | White or gray powder. |
| Titanium Alloy | Highly corrosion resistant. Extended or repeated contact with chlorinated solvents may result in degradation of the metals structural properties. | No visible corrosion products. |
| Magnesium Alloy | Highly susceptible to pitting. | White powdery snow-like mounds, and white spots on surface. |
| Low Alloy Steel (4000~8000 series) | Surface oxidation and pitting, surface and intergranular. | Reddish-brown oxide (rust). |
| Corrosion Resistant Steel (CRES) (300- 400 series) | Intergranular corrosion (due to improper heat treatment). Some tendency to pitting in marine | Corrosion evidenced by surface; sometimes by red, brown or black skin. |
| Nickel-base Alloy (Inconel) | Generally has good corrosion- resistant qualities. Sometimes susceptible to pitting. | Green powdery deposit. |
| Copper-base Alloy Brass, Bronze | Surface and intergranular corrosion. | Blue or blue-green powder deposit. |
| Cadmium (used as protective plating for steel) | Good corrosion resistance. If attack occurs, will protect steel from attack. | From white powdery corrosion products to brown or black molting of the surface. |
| Chromium (used as a wear-resistant plating for steels) | Subject to pitting in chloride environments. | Chromium, being cathodi to steel, does not corrode itself, but promotes rusting of steel where pits occur in the coating. |

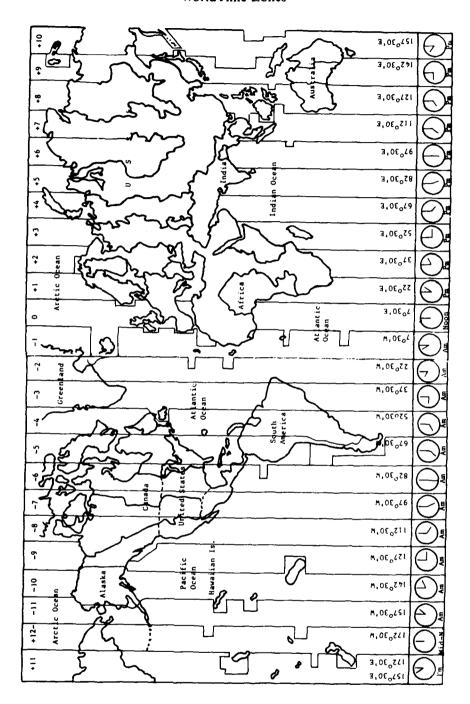
APPENDIX D

WORLD TRAVELER DATA

This appendix contains selected data to assist in the travel required for ACE/AACE.

Included are:

- World Time Zone Map
- World Monetary Systems List
- Unit Conversion Tables
- World Army Aircraft Deployment Matrix



Monetary Systems

| COUNTRY | MONETARY UNIT | COUNTRY | MONETARY UNIT |
|------------------------------|--------------------|-----------------------|-------------------|
| Afghanistan | Afghani | Laos | New Kip |
| Albania | Lek | Lebanon | Pound |
| Algeria | Dinar | Lesotho | Loti |
| Argentina | New Peso | Liberia | Dollar |
| Australia | Dollar | Libya | Dinar |
| Austria | Schilling | Liechtenstein | Franc |
| Bahamas | Dollar | Luxembourg | Franc |
| Bahrain | Dinar | Madagascar | Franc |
| Bangladesh | Taka | Malawi | Kwacha |
| Barbados | Dollar | Malaysia | Ringgit |
| Belgium | Franc | Maldives | Rupee |
| Belize | Dollar | Mali | Franc |
| Benin | CFA Franc | Malta | Pound |
| Bermuda | Dollar | Mauritania | Qugui ya |
| Bolivia | Peso | Mauritius | Rupee |
| Botswana | Pula | Mexico | Peso |
| Brazil | Cruzeiro | Monaco | Franc |
| Bulgaria | Lev | Mongolia | Tugrik |
| Burma | Kyat | Morocco Mozambique | Dirham Metical |
| Burundi Cameroon | Franc CFA Franc | Nepal | Rupee |
| Cameroon Canada | Dollar | Netherlands | Guilder |
| Canada Central African Er | | New Zealand | Dollar |
| Chad | CFA Franc | Nicaragua | Cordoba |
| Chile | Peso | Niger | CFA Franc |
| China | Yuan | Nigeria | Naira |
| Colombia | Peso | Norway | Krone |
| Congo | CFA Franc | Onsan | Rial |
| Costa Rica | Colon | Pakistan | Rupee |
| Cuba | Peso | Panama | Balboa |
| Cyprus | Pound | Paraguay | Guarani |
| Czechoslovakia | Koruna | Peru | Sol |
| Dermark | Krone | Philippines | Peso |
| Dominican Rep. | Peso | Poland | Zloty |
| Ecuador | Sucre | Portugal | Escudo |
| Egypt | Pound | Qatar | Riyal |
| El Salvador | Colon | Rumania | Leu |
| Equat. Guinea | Ekuele | Rvanda | Franc |
| Ethiopia | Birr | Saudi Arabia | Riyal |
| Fiji | Dollar | Senegal | CFA Franc |
| Finland | Markka | Sierra Leone | Leone |
| France | Franc | Singapore | Dollar |
| Gabon | CFA Franc | Somalia | Shilling |
| Gambia | Dalasi | South Africa | Rand |
| Germany, East | D-Mark | Spain | Peseta |
| Germany, West | D-Mark | Sri Lanka | Rupee |
| Ghana C | Cedi | Sudan | Pound |
| Greece | Drachma Dollar | Swaziland | Lilangeni |
| Grenada Cuetamolo | Dollar | Sweden Switzenland | Krona Franc |
| Guatemala | Quetzal | Switzerland | Pound |
| Guinea Guinea Bissau | Syli Feorelo | Syria Taiyan | Dollar |
| Guinea-Bissau Guyana | Escudo Dollar | Taiwan Tanzania | Shilling |
| Guyana Haiti | Courde | Thailand | Baht |
| Honduras | Lempira | Togo | CFA Franc |
| Hong Kong | Dollar | Trinidad and Tobago | Dollar |
| Hungary | Forint | Tunisia | Diner |
| Iceland | Krona | Turkey | Lira |
| India | Rupee | Uganda | Shilling |
| Indonesia | Rupiah | United Arab Emirates | Dirham |
| Iran | Rial | United Kingdom | Pound |
| Iraq | Dinar | United States | Dollar |
| iraq Ireland | | Upper Volta | CFA France |
| Israel | Pound Shekel | Uruguay | Peso |
| Italy | Lira | USSR | Ruble |
| Ivory Coast | CFA Franc | Venezuela | Bolivar |
| Jamaica | Dollar | Vietnam | Dong |
| Japan | Yen | Western Samoa | Tala |
| Japan Jordan | ien Dinar | Yemen | Dinar |
| Kanpuchea | Riel | Yeanen, Dean. | Dinar |
| Kampucnea Kenya | Shilling | Yugoslavia | Dinar |
| | Mou | Zaire | Zaire |
| Korea, North | | | |
| Korea, South | Won | Zambia | Kwacha |
| Kuwait | Dinar | Zimbabwe | Dollar |

Standard Unit Convearsion Tables U.S. English Units to SI Units

| TO CUNVERT FROM | TO | MULTIPLY B |
|--|--|---|
| Accelerations | | |
| fout/second (fi/s2) | meter/second ² (m/s ²) meter/second ² (m/s ²) | 3 046 = 10 1 . |
| inch/second (in /s²) | meter/second2 (m/s2) | 254 × 10-2 * |
| | • • | • |
| (Area) Loot ² (It ²) | meter ² (m ²) | 9 2903 × 10 ⁻² |
| inch² (in²) | meter ² (m ²) | 6.4516×30 ^{-4.4} |
| yard² (yd²) | meter ² (m ²) meter ² (m ²) | 8 3613 × 10-3 |
| yaru (yu i | | • |
| (Density) pound mass/inch ² (Ibm/in ³) | kilogram meter ³ (kg/m ³) | 2 7660 - 104 |
| pound mass/foot ³ (lbm/ft ³) | kilogram 'meter' (kg/m³) | 1 6018 × 10 |
| pound mass/root (IDM/tt) | guogram meter (ag/m / | 10010 110 |
| (Energy, Work) | Sanda (II) | 1 0544 × 10 ³ |
| British thermal unit (Btu) | joule (J) | 1 3556 |
| foot-pound force (ft - lbf) | joule (J) | 3 60 × 10 ° ° |
| kilowatt-hour (kw h) | joule (J) | י מו י מס כ |
| (Force) | | |
| kip (1000 lbf) | newton (N) | 4 4462 × 103 |
| pound force (lbf) | newton (N) | 4 4482 |
| ounce force | newton (N) | 2 7801 × 10-1 |
| (Length) | | |
| foot (ft) | meter (m) | 3 048 = 10-1 * |
| inch (in.) | meter (m) | 254 > 10 2 4 |
| mule (mi), (U.S. statute) | meter (m) | 1 6093 = 10 |
| mile (mi), (international nautical) | meter (m) | 1.852 = 10 |
| yard (yd) | meter (m) | 9 144 × 10 ⁻¹ * |
| (Mass) | | |
| pound mass (Ibm) | kilogram (kg) | 4.5359 × 10 ⁻³ |
| slug (lbl s2/ft) | kilogram (kg) | 1 4594 × 10 |
| ion (2000 lbm) | kilogram (kg) | 9 0718×10 ² |
| (Power) | • | |
| foot-pound/minute (ft - lbf/min) | watt (W) | 2 2597 × 10 ⁻² |
| horsepower (550 ft - lbf/s) | watt (W) | 7 4570 × 10 ² |
| (Pressure, stress) | | |
| atmosphere (std) (14.7 lbf/in.2) | newton/meter ² (N/m ² or Pa) newton/meter ² (N/m ² or Pa) | 1.0133 × 10 ³ |
| pound/looi ² (lbf/ft ²) | newton/meter (N/m or Pa) | 4 7880 = 10 |
| pound/foot ² (lbf/ft ²) pound/inch ² (lbf/in ² or psi) | newton/meter2 (N/m2 or Pa) | 4 8018 × 10, |
| (Velocity) | | |
| foot/minute (ft/min) | meter/second (m/s) | 5 06 = 10-3 |
| foot/second (ft/s) | meter/second (m/s) | 3 (48 = 10" |
| knot (neutical mt/h) | meter/second (m/s) | 5 1444 × 10 ⁻¹ |
| mile/hour (ms/h) | meter/second (m/s) | 4 4704 × 10 ⁻¹ * |
| mile/hour (mi/h) | kilometer/hour (km/h) | 1 6093 |
| mile/second (mi/s) | kilometer/second (km/s) | 1 6043 |
| (Viscosity) | , , | |
| foot ² /second (ft ² /s) | meter ² /second (m ² /s) | 9 2903 × 10 ⁻² |
| pound-mau/foot-second | | |
| (lb _m /f(s) | pascal-second (Pa · s) | 1 4RB2 |
| pound-force second/font" | | |
| (lb, +/fi²) | pascal-second (Pa · s) | 4 788 × 10 |
| (101 - 1/11) | | |

| TO CONVERT FROM | то | MUL | TIPLY BY |
|--|--|--|------------------------|
| (Fahrenheit) | °F = (9/5) °C + | - 32 | |
| (Celcius) | $^{\circ}C = (5/9) (^{\circ}F)$ | - 32) | |
| (Kelvin) | $^{\circ}K = ^{\circ}C + ^{\circ}273.1$ | 6 | |
| (Rankine) | °C = (5/9) (°F °K = °C + 273.1 °R = °F + 459.6 | 9 | |
| | | | |
| UNITS OF TOROUE | | | |
| lb. in. | gram cu | 1. | 1152.128 |
| lb. ft. | gram cn | | 13.826 |
| lb. ft. | kp mete | | 0.1383 |
| Qz. in. | gram cn | | 72.008 |
| oz. in. | 1b. ft. | | 0.005208 |
| $ \begin{array}{r} \frac{1}{32}03125 \\ \frac{3}{64}046875 \\ \frac{1}{16}0625 \end{array} $ | $ \begin{array}{r} 17 \\ 64 \\ 265625 \\ 9 \\ 32 \\ -28125 \\ -19 \\ 64 \\ -296875 \\ -5 \\ -3125 \\ -21 \\ -64 \\ -328125 \end{array} $ | 17 32 35 546875 9 .5625 | 51 .796875 |
| 3 | .34375 | 19 50275 | $\frac{27}{32}$.84375 |
| 7 | 23 | 39 609375 | |
| $\frac{109375}{64}$ | 3/8375 | 5/8 | 7/8875 |
| .125 | 25 .390625 | 41 640625 | - 57 890625 |
| 9 140625 | 13 **** | 64 .040025 | 29 |
| 5 45005 | 32 .40625 | $\frac{21}{32}$.65625 | .90625 |
| 32 . 15625 | 27 421875 | 43 | 59 921875 |
| 11 171875 | 64 | -3- .671875 | 64 .021073 |
| 64 | $\frac{7}{16}$.4375 | 11 6975 | .9375 |
| -3 1875 | | 16 | 61 050455 |
| 13 64203125 | 29 .453125 -15 .46875 | 45 .703125 | 61 .953125 |
| ••• | 15 45075 | 23 74075 | 31 96875 |
| $\frac{7}{32}$.21875 | 32 .400/5 | 32 ./18/5 | 63 |
| 72 | | | |

and the state of t

SI Units and Symbols

| QUANTITY | UNIT | SI SYM | IBOL FORMULA |
|---|-----------------------------|---|--------------------|
| <u> </u> | | | |
| length | meter | m | |
| mess | kilogram | kg | * * * |
| time | second | • | *** |
| electric current | ampere kelvin | Â | |
| thermodynamic temperature amount of substance | mole | wol . | |
| luminous intensity | candela | ed | * * * |
| ignurous intensity | Calibria | | |
| SUPPLEMENTARY UN | NTS: | | |
| plane angle | radian | rad | |
| solid angle | steradian | \$7 | ••• |
| DERIVED UNITS: | | | |
| acceleration | meter per second squar | ed , | m/s² |
| angular acceleration | radian per second squar | | rad/s ² |
| angular velocity | radian per second | | rad/s |
| MC1 | square meter | | m* |
| density | kilogram per cubic met | tr | kg/m³ |
| electric potential difference | volt | V | W/A |
| electric resistance | ohm | n | V/A |
| energy | joule | J | N · m |
| entropy | joule per kelvin | ::: | J/K |
| torce | newion | N. | kg·m/s² |
| frequency | hertz | Hz | 1/s |
| magnetomotive force | ampere | û | 1/5 |
| power | watt | Pa | N/m ² |
| pressure | pasca! coulomb | ra C | rv/m A · s |
| quantity of electricity | joule | j | N·m |
| quantity of heat radiant intensity | youre watt per steradian | | W/sr |
| radiant intensity specific heat | joule per kilogram-kelv | | J/kg : K |
| specine neat | pascal per kuogram-keiv | ın Pa | N/m ² |
| thermal conductivity | watt per meter-kelvin | | W/m·K |
| velocity | meter per second | • • • | m/s |
| viscosity. dynamic | pascal-second | • • • • | Pa t |
| viscosity, kinemata: | square meter per second | | m ³ /2 |
| volume | cubic meter | • | Pa s m²/s m³ |
| work | joule | j'' | N·m |
| SI PREFIXES | | | |
| MULTIPLICATION FACT | | PREFIX | SI SYMBOL |
| 1 000 000 000 000 | 10° | tera | T G |
| 1 000 000 000 1 000 000 | - 10 | E:E2 | M |
| 1 1000 000 | | mega kifo | M t |
| 1000 | | kiio hecto | k h |
| | | deka | u da |
| 0.1 | = 10~1 | deci | d |
| 0.01 | - 10⁻ ′ | centi | Č |
| 0 001 | - 10 , | milli | m |
| 0.000.001 | = 10 ⁻⁵ | micro | μ |
| 0.000.000.001 | - 10 ⁻⁴ | nano | n |
| 0.003.000.000.001 | = 10 '' | pico | P |
| 0 000 000 000 000 001 | - 10" ^{[5} | (emto | Ì |
| 0 000 000 000 000 000 001 | - 10 | 16mto | |

Army Aircraft Deployment

| = | | Τ | | | Ţ | | | _ | Γ. | | _ | | _ | | | | I | Ţ | J | I | Ţ | Ţ | , 7 | | _], | |
|---------------------|----------------------|-----------|--------------------|-------------------|----------------------|--------------|-------------|------------------|---------|------------|------------|--------------------------------|-------------|------------|--------------|-------------|----------------|----------------|-------------|------------------------|------------|------------|----------------|----------|--------------|--------------|
| Total | \$25 | 2 | 2 | - | ā | 13 | = | .0 | | 2 | 2 | \$ | _ | g | 172 | = | <u>"</u> | 1 | 2 | * | 1 | <u> </u> | | 011 | Ц | <u>.</u> |
| A08-HU | - | | | | L | | | _ | L | L | L | | | | Ц | | | 1 | 1 | ╧ | 1 | 1 | | | Ц | |
| VI-HU | 8 | L | L | L | L | | | ۰ | | L | L | ٠ | | _ | L | | 4 | | 1 | 4 | 4 | 4 | | | | |
| MI-HO | | | | | | - | | | 2 | | | | | • | | | | | | | | | | | | |
| HI-HA | 333 | - | 7 | L | 13 | ۰ | 71 | 79 | 26 | 2 | • | 27 | _ | ~ | 5 | | | | Ι' | | _ | 1 | | ~ | Ц | |
| OH-1C | | L | | | | | | | | | <u> </u> | | | | L | | 1 | | 1 | ╛ | 1 | | | | Ц | |
| EI-RO | | | | | | | | | | | | | _ | | L | | \perp | | ┙ | \downarrow | 1 | | | | Ц | |
| HI 5-11H | | | | | | ~ | | | | Ĺ | | | | | | | | | | | | 1 | | | Ц | |
| MI~21C | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ais-m | | I | Ţ | | | | | | | | | | | | | | | | | | | | | | | |
| Ai S-UA | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-21C | | | | Ì | | | | | | | | | | | | | | | | | | | | | | |
| 312-0 | | | Γ | Γ | | Γ | | | | | | | | | | | | | | | | | | | | |
| V-21A | , | Ţ | | - | | | | | | - | - | | | - | 2 | - | | ŀ | - | | | | • | - | - | _ |
| RV-1D | | | T | Τ | T | | | | | | | | | | | | | | | | | | | | | |
| at-vo | 9 | T | T | T | | | 1 | | | = | T | | | | | | Ī | -1 | T | | | | | | | |
| OA-1C | | T | T | Ť | | | | | | | | | | | | - | П | 1 | | | | ٦ | | | | |
| V9-A0 | | | T | T | Γ | | | | | | | | | | | Г | | 1 | | | ٦ | | | | | |
| V9-NO | | • | T | T | - | | ~ | | | T | | | | Г | | | П | 1 | 7 | 1 | 7 | 7 | | | | 2 |
| 282-HO | | T | - | 5 | T | | 1 | | 2 | 7 | | | | - | 2 | = | ٦ | | Ţ | ` | • | | | " | | |
| #85-RO | | T | t | T | T | | | | - | T | 1 | 2 | | | | Γ | П | 1 | 1 | 1 | | _ | | | | |
| VBS-RO | | 1 | | T | Τ | T | | 22 | Γ | Τ | Τ | Π | П | | Γ | Г | П | | Ţ | | | | | | | |
| #75-RO | | T | 1 | T | 2 | | | | Γ | | T | | Π | | Γ | Γ | П | | | 1 | | | | | | |
| V95-RD | | T | T | T | | | | - | | | | Γ | | Π | | | | ٦ | ٦ | Ī | | | | | | |
| CH-47D | 13 | | Т | T | T | | Т | | | Τ | | | | ٦ | 1 | ~ | П | ٦ | | 7 | | | | | | |
| ⊃()− R⊃ | | T | T | Ť | T | 1 | T | | Τ | T | T | | | | | | П | | 7 | ٦ | | | | 2 | | |
| 87.4-ND | | 1 | T | T | 1 | T | | | Г | T | T | | Γ | | | | П | | | ┪ | | | | | | |
| V∠ %-RO | | T | T | T | 1 | Ť | T | 2 | | T | T | | | | | | П | | 1 | - 1 | | | | | | |
| V79-NV | | 1 | T | T | T | Ť | | | Π | T | 1 | | | | | | П | | 1 | | | | | | | - |
| 21-MA | | + | Ť | † | † | + | T | • | - | + | - | | T | | \$ | - | П | | 1 | 7 | | | | 92 | | ~ |
| OI-HI/V | | t | Ť | + | \dagger | - | 1 | | | T | T | | 1 | | T | T | П | | 7 | ┪ | | | | | | - |
| Airerafe | | † | + | Ť | Ť | ۲ | Ť | | | 十 | T | | _ | ┌┈ | Γ | Τ | П | | 7 | | | | | | | |
| Location | UNITED STATES ALABAM | ft. Mener | Se Clair Co Airman | crais co. Airpoit | Analeton Celnoun Co. | Redatone AAP | Bates Field | ALASKA Alaska | ARIZONA | repage AAF | Leguen AAF | ARCAISAS Come Tob (nece AA) | Adams Field | CALIFORNIA | Fritzsche AA | Eduards AFB | Presso Airport | Presmo Airport | Hemilton AD | Stockton Metro Airport | Mather AFB | Amedde AAF | Degget Airport | COLORADO | Buckley AMCB | Buckley AMGB |

Army Aircraft Deployment (Cont'd)

| Total | 7 | × | 53 | 2 | - | | | | 3 | • | ī | | 292 | 96 | 137 | 3 | 7 | 2 | e, | , | 7 | | , | | ·T | 11 | æ |
|----------|--|-----------------------|--|--|---------------|------------|------------------|----------|------------|---------------|---------------|-----------------------|--------------------------|------------------------|------------------|-----------------------------|--|----------------|--------------|-------------|-----------|------------------------|---------|--------------------|---------------------------|------------------------|-----------------------|
| ¥09-H∕I | | | <u> </u> | | T | T | | \vdash | | | L | | 9 | 9 | | \vdash | | T | <u> </u> | ┪ | \vdash | Г | | \dagger | † | | _ |
| AI-HO | | - | | \vdash | + | \dagger | - | | - | H | H | H | | 2 | • | - | _ | t | - | | - | H | - | + | \dagger | _ | - |
| HI-HU | | _ | \vdash | ٦. | T | T | | T | ٦ | Г | Г | | Г | | | 2 | | T | ✝ | T | Г | | | † | † | _ | |
| HI-HA | ~ | 72 | 200 | 20 | +- | 1 | - | 1 | 2 | Н | 7 | 7 | ā | 2 | 2 | 2 | | = | × | Ē | * | ۰ | - | :†; | + | 2.1 | - |
| OH-1C | | Г | | | T | T | Т | Г | _ | Г | | | | - | | | | T | T | Т | Г | - | | + | 1 | | |
| 81-NU | | T | | | 1 | T | | | | | Г | | Г | | | | | T | | Г | T | | Г | T | Ť | | |
| RU-21H | | Г | | | | | | Г | | | Г | Г | Γ | | | | | T | | | Г | | | \top | 1 | | |
| RU-21C | | Г | | | | | | | | Г | Г | Г | Γ | | | | | T | Γ | | Г | Γ | | 1 | | | |
| 81.5-UR | | | | | T | T | | | | | Г | | Γ | | | | | T | | | | Γ | | T | 1 | | |
| RU-21A | | | | | | ٦ | - | | | | | | Γ | | | | | Τ | Γ | | Γ | | | | T | | |
| n-21C | | Γ | | | Τ | Γ | | | | | Г | | Γ | Г | | | | | T | | Γ | Γ | | \dagger | T | | |
| 412-N | | | | - | - | 1 | Γ | | - | | Г | 4 | 2 | = | - | _ | | T | T | - | Γ | Γ | | T | - | | |
| N-21A | | | | | Γ | | Γ | | | | | | | | | | | T | | | | | | 1 | T | | |
| RV-1D | | | | | | Γ | Γ | | | | | | | | | | | T | | | | Γ | | T | 1 | | |
| 01-1D | | | | | | T | Γ | Γ | | 71 | 1 | | = | | | | | 1 | | | | | | T | T | | |
| 0A~1C | | | | | П | | Γ | | | | Γ | | | Г | | | - | T | Γ | | | | | Ť | 1 | | |
| V9-40 | | | _ | | T | Τ | Г | | | | Г | | | | | | | Τ | | | | | | T | T | | |
| V9~HO | | | | [| | Γ | | | | | ٦ | | 9 | 8 | | | | Τ | | | Γ | | | 1 | T | | |
| OH~58C | | | | | | | | | | | Г | | | | | | | T | | Γ | Γ | Γ | | 1 | T | | |
| 885∼HO | | | | | | Γ | | | | | | | | | | | | T | | | Γ | | | | 1 | | |
| VBS-BO | | | | | | Γ | | | ٦ | | $\overline{}$ | | | | 99 | 3 | - | • | • | | | Γ | | 2 | 1 | | 2 |
| ers-Ro | | 2 | | | Π | Γ | | | | | | | | | | | | Τ | Γ | Γ | | | | T | T | | |
| V#S-RO | | | | | | | | | | | | | 2 | | | | | Γ | | | Γ | Г | | T | 1 | | |
| GK ND | | | | | | | | | | | | | | | 9 | | | | | | | | | Ī | T | _ | |
| 26 ≯-H2 | | | | | | | | | | | | | | | | | | | | | | | | 1 | T | | |
| なん シードコ | | | | | | | | | | | | | | | | | | | | | | | | | Ţ | | |
| V/ 5~H⊃ | | | | | | | | | | | | | 91 | | | | | | | | | | | | T | | |
| V79-HV | | | | | | Γ | | | Ţ | | | | | | | | | Γ | | | | | | Ţ | Ţ | | |
| SI-HV | | | | - | | Γ | | | | | | | gr. | | 15 | | | Ι | | | | | | | T | | |
| 91-HI/V | | | | , | | | | | ٦ | | | | | | | | | | | | | | | | | | |
| Shannia | | | | | Γ | Γ | | | | | | | | | | | | Γ | | Г | | | | | T | | |
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Army Aircraft Deployment (Cont'd)

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| 21-HA | | | R | П | Г | | 1 | 7 | 8 | П | | 7 | 7 | 9 | | 1 | | ٦ | 1 | | | 1 | T | Γ | | Γ | T | Γ | | |
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| Location | IOMA CONT'D Boone Airport | Des Moines Muni Airport | Marshell AAF | Industrial Airport | Forbes AFB | KBHTUCKY | Capital City Airport | Coodmen AAP | Compbell AAF | Bowmen Field | LOUISIAMA | Lakefront Airport | Acadiana Regional Airport | Polk AAF | PATHE | Bangor Intl. Airport | MATTAND Phillips AAF | Weide AAT | Tipton AAP | Hagerstown Muni Airport | MASSACHUSETTS | Deta AMOR | Heatover AFB | MICHIGAN | ni Airport | Selfridge ANGB | Oakland Pontiac Airport | HIMMESOTA | Downtown Airport | Dountown Airport |

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| Location | MISSISSIPE Key Field | Heeki | Vicks | Culta | 5 | MISSOURI | Locus | Sprin | Sprin | Memor | Mite | HONTANA Helens H | HEBRASKA | Linco | NEVADA Reno-St | | Conco | HEW JERSEY | HOLE . | Herce | McGuin | Lakeh | Lakeh | NEW MEXICO | Santa | Hollon | NEW YORK | Niege | Hanco | Albany | SKEVE |

Army Aircraft Deployment (Cont'd)

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Army Aircraft Deployment (Cont'd)

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Army Aircrast Deployment (Cont'd)

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Army Aircraft Deployment (Cont'd)

| becarion Aircraft | OI-HI/V | SI-HV | V+9-RV | V/ 7-RO | 87.4-BD | 2(≯-8D | GY =- NO | E95-RO V95-RO | V85-RO | 882-HO | 385-RO | V9-R0 | V9-A0 | OA-1C | OA-1D | GI-AN | A15-U | 412-D | 0-21C | AU-21A | 81.S-UR | MU-2 1C | RI Z-ON | 81-80 | 21-R0 | HI-RO HI-RO | AI-HO | Y09-M/I | Total |
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